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Technology Center 2600 Approved for use through 07/31/2006. OMB 0651-0031 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE Inder the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. **Application Number** 09/846.061 TRANSMITTAL Filing Date 04/30/2001 First Named Inventor **FORM** Victor Demjanenko Art Unit 2637 **Examiner Name** Lugo, David B. (to be used for all correspondence after initial filing) Attorney Docket Number Total Number of Pages in This Submission **ENCLOSURES** (Check all that apply) After Allowance Communication to TC Fee Transmittal Form Drawing(s) Appeal Communication to Board Licensing-related Papers Fee Attached of Appeals and Interferences Appeal Communication to TC Petition Amendment/Reply (Appeal Notice, Brief, Reply Brief) Petition to Convert to a After Final Provisional Application Proprietary Information Power of Attorney, Revocation Status Letter Affidavits/declaration(s) Change of Correspondence Address Other Enclosure(s) (please Identify Terminal Disclaimer **Extension of Time Request** below): Request for Refund **Express Abandonment Request**

CD, Number of CD(s)

Remarks

Landscape Table on CD

	Reply to Missing Parts under 37 CFR 1.52 or 1.53			
	SIGNA	L TURE OF APPLICA	NT, ATTORNEY, OR AGENT	
Firm Name	VoCAL Technologies, Ltd			
Signature	Unite	Dynn	L.	***
Printed name	Victor Demjanenko	0		
Date	September 28, 2004		Reg. No.	

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below:

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Information Disclosure Statement

Certified Copy of Priority

Reply to Missing Parts/ Incomplete Application

Document(s)

Date

September 28, 2004

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.



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Technology Center 2600

Applicant:

Victor Demjanenko, et al

Title:

Use of Turbo-Like Codes for QAM Modulation Using Independent I

and Q Decoding Techniques and Applications to xDSL Systems

Application No.:

09/846,061

Filling Date:

04/30/2001

Examiner:

Lugo, David B.

Art Unit:

2637

RESPONSE TO RESTRICTION REQUIREMENT

Commissioner for Patents Washington, D.C. 20231

Sir:

Applicants hereby reply to the office action mailed on September 23, 2004.

· Serial No 10/290,662

RESPONSE

- 1. The 23 September 2004 official action addressed claims 1 to 9. Restriction to either Claims 1-7 or Claims 8 and 9 was requested. Claims 1 and 7 are independent. Claims 2-6 are dependent on Claim 1. Claims 8 and 9 are dependent on Claim 7. We will assume the restriction was intended to be for either Claims 1-6 (purportedly Invention I) or Claims 7-9 (purportedly Invention II).
- 2. Invention I and II are related and would not have separate utility. A QAM DSL system is comprised of a transmitter and a receiver. Forward error correction features must be equally supported in both the transmitter and receiver. Not only is it ineffective to forward error correct a data stream being transmitted to a receiver which is lacking the implementation of a matching forward error correction procedure, but it can be nearly impossible to recover the intended data stream. More extreme disastrous effects arise when a receiver expecting forward error correction is used with a transmitter lacking this feature. Subclass 265 is for a "Trellis Encoder or Trellis Decoder" and is under the more general Subclass 261 for "Quadrature Amplitude Modulation" which itself is under the more general Subclass 259 "Systems using Alternating or Pulsating Current". Inventions I and II are part of a system and should be considered under Subclass 261.

3. In the event of failure to convince the patent examiner of this argument, the applicant would elect a restriction to Invention I by canceling Claims 7, 8 and 9 without prejudice and under protest.

- Serial No 10/290,662
 - 4. Inventorship related to Inventions I and II is identical.

The examiner is invited to contact the undersigned to resolve any remaining issues.

Respectfully submitted,

9/28/2004

Date

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